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Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
	10/706,492	11/12/2003	Zhan Gao	MAIKP106US	7215		
	29393 7590 09/26/2005			EXAM	EXAMINER		
		ER & ASSOCIATES,		RAHLL,	RAHLL, JERRY T		
		CITY BANK BUILDIN AVE., SUITE 1210	G	ART UNIT	PAPER NUMBER		
		D, OH 44114		2874			

DATE MAILED: 09/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		A 12 A2 N	T A					
		Application No.	Applicant(s)	•				
		10/706,492	GAO ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Jerry T. Rahll	2874					
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the	correspondence address	S				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
2a)□		action is non-final.						
3)								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims		•					
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1,2,10,11,13,14 and 22</u> is/are rejected.							
	Claim(s) <u>3-9,12 and 15-19</u> is/are objected to.							
8)∟	Claim(s) are subject to restriction and/o	r election requirement.						
Applicat	ion Papers							
9)[9) The specification is objected to by the Examiner.							
-	10)⊠ The drawing(s) filed on <u>12 November 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119							
12)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)	☑ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority document	·						
	2. Certified copies of the priority document	• •						
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
			•					
A44-a4								
Attachmen	t(s) e of References Cited (PTO-892)	4) T 1=1== := 0	·(DTO 442)					
2) D Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D	ate					
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 11/12/03, 1/29/04.	5) Notice of Informat F 6) Other:	Patent Application (PTO-152)					

DETAILED ACTION

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Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to because they appear to be low-quality photocopies. Some details of the drawings are obscured due to the poor resolution. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Information Disclosure Statement

3. The information disclosure statements (IDS) submitted on 29 January 2004 and 12 November 2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 5. Claims 1-2, 10-11, 13-14 and 22 are rejected under 35 U.S.C. 102(a) as being anticipated by U.S. Patent No. 6,418,246 to Gampp.
- 6. Gampp describes a planar optical circuit (10) having a monolithic integrated optical component (20) associated with a planar substrate 16, a waveguide structure (12-14) configured to transfer an optical signal associated with the optical component and a scattered light system (44-46) operable to influence a propagation of scattered light from the optical component in a targeted manner, where the scattered light system is integrated into the planar substrate (see Figures 1A-1C and Columns 4-6).
- 7. Further, Gampp describes the scattered light system operable to deflect, divert or absorb the scattered light (see Column 4, Lines 63-66).
- 8. Further, Gampp describes the scattered light system having a scattered light-reflecting structure including a trench within the planar substrate (44-46).

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9. While Gampp does not specifically describe the scattered light system having a scattered light-absorbing structure including a trench in the planar substrate filled with a light absorbing substance, the device described by Gampp inherently has such a set-up. Gampp describes a trench formed in the substrate filled with India ink (see Column 4, Lines 60-62). India ink is a light absorbing material. Therefore, Gampp describes a light-absorbing structure as specified in Claims 10 and 11.

Allowable Subject Matter

- 10. Claim3-9, 12 and 15-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 11. Claims 3-9 describe the scattered light system comprising an additional waveguide arranged in the vicinity of the scattered light source.
- 12. Claim 12 describes a plurality of waveguides and a plurality of light-absorbing trenches arranged generally parallel to and between the plurality of waveguides.
- 13. Claims 15-18 describe a plurality of waveguides and a plurality of light-reflecting trenches arranged generally parallel to and between the plurality of waveguides.
- 14. Claims 19-21 describe a trench in the substrate terminating a monitoring waveguide, where a photodiode is at least partially in the trench,
- 15. This is subject matter not described or reasonably suggested by the prior art of record.

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Conclusion

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16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patents Nos. 6,647,185 and 5,321,779 and U.S. Patent Application Publication No. 2004/0033004 all describe planar waveguides with scattered light systems.

- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-Th (8:30-5:30).
- 18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jerry Rahll

Rodney Bovernick Supervisory Patent Examiner Technology Center 2800